IN THE CLAIMS:

A complete listing of the claims is set forth below. Please amend the claims as

follows:

1-10. (Canceled)

11. (Currently Amended) A computer-implemented system for managing

data associated with available-to-promise (ATP) products, comprising one or more

computer systems each comprising one or more processing units and one or more

memory units, the system comprising:

a memory operable to store a hierarchy of at least two seller models that each

represent a seller for one or more products, each product being associated with a

product forecast model representing:

forecasted sales of the product through the seller;

planned supply of the product;

customer orders for the product through the seller; and

pre-allocated supply of the product to the seller, the pre-allocated supply

being a supply of the product that has been pre-allocated to the seller for promising to

subsequent customer orders for the product through the seller, the pre-allocation of the

supply of the product to the seller occurring prior to distribution of the pre-allocated

supply of the product to the seller; and

a processor coupled with the memory and operable to:

the system operable to compute the amount of the product that is ATP at a seller

according to at least the planned supply of the product, the customer orders for the

product through the seller, the pre-allocated supply of the product to the seller, and the

amount of the product that is ATP at one or more other sellers at a higher level in a

seller hierarchy.

12. (Previously Presented) The system of Claim 11, further operable to

adjust the pre-allocated supply of the product to the seller according to one or more

business criteria selected from the group consisting of seller criteria, product criteria,

forecast criteria, supply criteria, customer order criteria, and policy criteria

13. **(Previously Presented)** The system of Claim 11, further operable to:

communicate forecast models to a remote system;

receive from the remote system a promise computed at the remote system for a

customer order requesting a quantity of a product through the seller, the promise being

computed according to the pre-allocated supply of the product to the seller;

receive from the remote system adjusted forecast models reflecting the promise;

and

recompute the amount of the product that is ATP at the seller.

14. **(Previously Presented)** The system of Claim 13, wherein:

all forecast models for one or more sellers are communicated to the remote

system; and

the system is further operable to:

receive from the remote system the promise also computed according to

the amount of the product that is ATP at the one or more other sellers at the higher level

in the seller hierarchy; and

adjust the amount of the product that is ATP at the one or more other

sellers at the higher level in the seller hierarchy if the promise exceeds the pre-allocated

supply of the product to the seller.

15. (Previously Presented) The system of Claim 11, wherein the forecast

model further represents a quantity of the product the seller has committed to selling,

the system operable to adjust the pre-allocated supply of the product to the seller

according to the committed quantity.

16. **(Previously Presented)** The system of Claim 11, further operable to:

accept a customer order requesting a quantity of a product through the seller,

and compute a promise for the customer order according to the planned supply and one

or more existing customer orders, the promise restricted according to the pre-allocated

supply of the product to the seller.

17. (Previously Presented) The system of Claim 11, wherein:

each forecast model is extensible such that one or more policy rules may be

associated with the corresponding product;

each policy rule comprises a restriction on either the forecasted sales or the pre-

allocated supply of the product to the seller; and

either the forecasted sales or the pre-allocated supply of the product to the seller

is computed according to the policy rules.

18. (Previously Presented) The system of Claim 11, further operable to

adjust either the forecasted sales or the pre-allocated supply of the product to the seller

according to an arrival rate of customer orders for the product through the seller.

19. (Currently Amended) A computer-implemented system for managing

data associated with available-to-promise (ATP) products, comprising one or more

computer systems each comprising one or more processing units and one or more

memory units, the system comprising:

a memory operable to store a hierarchy of at least one seller model representing

a seller for products that each correspond to an item having one or more restrictions on

its sale, at least two products corresponding to the same item but with at least one

different restriction, each product being associated with a product forecast model

representing:

forecasted sales of the product through the seller;

planned supply of the product;

customer orders for the product through the seller; and

pre-allocated supply of the product to the seller, the pre-allocated supply

being a supply of the product that has been pre-allocated to the seller for promising to

subsequent customer orders for the product through the seller, the pre-allocation of the

supply of the product to the seller occurring prior to distribution of the pre-allocated

supply of the product to the seller; and

a processor coupled with the memory and operable to:

the system operable to compute the amount of the product that is ATP at a seller

according to at least the planned supply of the product, the customer orders for the

product through the seller, the pre-allocated supply of the product to the seller, and the

amount of the product that is ATP at one or more other sellers at a higher level in a

seller hierarchy.

20. (Previously Presented) The system of Claim 19, wherein the restrictions

are selected from the group consisting of price restrictions, quantity restrictions, and

lead time restrictions.

21. (Previously Presented) The system of Claim 19, further operable to

adjust the pre-allocated supply of the product to the seller according to one or more

business criteria selected from the group consisting of seller criteria, product criteria,

forecast criteria, supply criteria, customer order criteria, and policy criteria.

22. (Previously Presented) The system of Claim 19, further operable to:

communicate forecast models to a remote system;

receive from the remote system a promise computed at the remote system for a

customer order requesting a quantity of one or more items through the seller, the

promise being computed according to at least the pre-allocated supply for

corresponding products;

receive from the remote system adjusted forecast models reflecting the promise;

and

recompute the amounts of the corresponding products that are ATP at the seller.

23. (Previously Presented) The system of Claim 19, wherein the forecast

model further represents a quantity of corresponding products the seller has committed

to selling, the system operable to adjust the pre-allocated supply of the product to the

seller according to the committed quantity.

24. (Previously Presented) The system of Claim 19, further operable to:

accept a customer order requesting quantities of one or more items through the

seller; and

compute a promise for the customer order according to the pre-allocated supply

for corresponding products, wherein the promise comprises a plurality of options each

with one or more of the restrictions specified for these products.

25. (Previously Presented) The system of Claim 19, wherein:

each forecast model is extensible such that one or more policy rules may be

associated with the corresponding product;

each policy rule comprises a restriction on either the forecasted sales or the pre-

allocated supply of the product to the seller; and

either the forecasted sales or the pre-allocated supply of the product to the seller

are computed according to the policy rules.

26. (Previously Presented) The system of Claim 19, further operable to

adjust either the forecasted sales or the pre-allocated supply for one or more products

for the seller according to an arrival rate of customer orders for those products through

the seller.

27. (Previously Presented) A method for managing data associated with

available-to-promise (ATP) products, comprising:

accessing at least two seller models that each represent a seller for one or more

products, each product associated with a product forecast model representing:

forecasted sales of the product through the seller;

planned supply of the product;

customer orders for the product through the seller; and

pre-allocated supply of the product to the seller, the pre-allocated supply

being a supply of the product that has been pre-allocated to the seller for promising to

subsequent customer orders for the product through the seller, the pre-allocation of the

supply of the product to the seller occurring prior to distribution of the pre-allocated

supply of the product to the seller; and

computing the amount of the product that is ATP at a seller according to at least

the planned supply of the product, the customer orders for the product through the

seller, the pre-allocated supply of the product to the seller, and the amount of the

product that is ATP at one or more other sellers at a higher level in a seller hierarchy.

28. (Previously Presented) The method of Claim 27, further comprising

adjusting the pre-allocated supply of the product to the seller according to one or more

business criteria selected from the group consisting of seller criteria, product criteria,

forecast criteria, supply criteria, customer order criteria, and policy criteria.

29. **(Previously Presented)** The method of Claim 27, further comprising:

communicating forecast models to a remote system;

receiving a promise computed at the remote system for a customer order

requesting a quantity of a product through the seller, the promise having been

computed according to the pre-allocated supply of the product to the seller;

receiving from the remote system adjusted forecast models reflecting the

promise; and

recomputing the amount of the product that is ATP at the seller.

30. **(Previously Presented)** The method of Claim 29:

wherein all forecast models for one or more sellers are communicated to the

remote system;

wherein the promise has also been computed according to the amount of the

product that is ATP at the one or more other sellers at the higher level in the seller

hierarchy; and

further comprising adjusting the amount of the product that is ATP at the one or

more other sellers at the higher level in the seller hierarchy if the promise exceeds the

pre-allocated supply of the product to the seller.

31. **(Previously Presented)** The method of Claim 27:

wherein the forecast model further represents a quantity of the product the seller

has committed to selling; and

further comprising adjusting the pre-allocated supply of the product to the seller

according to the committed quantity.

32. (Previously Presented) The method of Claim 27, further comprising:

accepting a customer order requesting a quantity of a product through the seller,

and computing a promise for the customer order according to the planned supply and

one or more existing customer orders, the promise restricted according to the pre-

allocated supply of the product to the seller.

33. (Previously Presented) The method of Claim 27, wherein:

each forecast model is extensible such that one or more policy rules may be

associated with the corresponding product;

each policy rule comprises a restriction on either the forecasted sales or the pre-

allocated supply of the product to the seller; and

either the forecasted sales or the pre-allocated supply of the product to the seller

is computed according to the policy rules.

34. (Previously Presented) The method of Claim 27, further comprising

adjusting either the forecast values or the pre-allocated supply of the product to the

seller according to an arrival rate of customer orders for the product through the seller.

35. (Previously Presented) A method for managing data associated with

available-to-promise (ATP) products, comprising:

accessing at least one seller model representing a seller for products that each

correspond to an item having one or more restrictions on its sale, at least two products

corresponding to the same item but with at least one different restriction, each product

being associated with a product forecast model representing:

forecasted sales of the product through the seller;

planned supply of the product;

customer orders for the product through the seller; and

pre-allocated supply of the product to the seller, the pre-allocated supply

being a supply of the product that has been pre-allocated to the seller for promising to

subsequent customer orders for the product through the seller, the pre-allocation of the

supply of the product to the seller; and

computing the amount of the product that is ATP at a seller according to at least

the planned supply of the product, the customer orders for the product through the

seller, the pre-allocated supply of the product to the seller, and the amount of the

product that is ATP at one or more other sellers at a higher level in a seller hierarchy.

36. (Previously Presented) The method of Claim 35, wherein the restrictions

are selected from the group consisting of price restrictions, quantity restrictions, and

lead time restrictions.

37. (Previously Presented) The method of Claim 35, further comprising

adjusting the pre-allocated supply of the product to the seller according to one or more

business criteria selected from the group consisting of seller criteria, product criteria,

forecast criteria, supply criteria, customer order criteria, and policy criteria.

38. **(Previously Presented)** The method of Claim 35, further comprising:

communicating forecast models to a remote system;

receiving a promise computed at the remote system for a customer order

requesting a quantity of one or more items through the seller, the promise having been

computed according to at least the pre-allocated supply for corresponding products;

receiving from the remote system adjusted forecast models reflecting the

promise; and

recomputing the amounts of the corresponding products that are ATP at the

seller.

39. (Previously Presented) The method of Claim 35, wherein:

the forecast model further represents a quantity of corresponding products the

seller has committed to selling; and

further comprising adjusting the pre-allocated supply of the product to the seller

according to the committed quantity.

40. **(Previously Presented)** The method of Claim 35, further comprising:

accepting a customer order requesting quantities of one or more items through

the seller, and computing a promise for the customer order according to the pre-

allocated supply for corresponding products, wherein the promise comprises a plurality

of options each with one or more of the restrictions specified for these products.

41. **(Previously Presented)** The method of Claim 35, wherein:

each forecast model is extensible such that one or more policy rules may be

associated with the corresponding product;

each policy rule comprises a restriction on either the forecasted sales or the pre-

allocated supply of the product to the seller; and

either the forecasted sales or the pre-allocated supply of the product to the seller

is computed according to the policy rules.

42. (Previously Presented) The method of Claim 35, further comprising

adjusting either the forecasted sales or the pre-allocated supply for one or more

products for the seller according to an arrival rate of customer orders for those products

through the seller.